

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of the claims in the present application.

Listing of Claims:

1. (Currently Amended) A device for waking up at least one targeted user of a bus system without waking up all of the users of the bus system, comprising:
 - a detection device for implementing a two-step wake-up procedure including:
 - performing a first step of transmitting, from a transmitter, a message on the bus system for detecting at least one predefined signal feature of the message and determining, as a function of a data pattern encoded within the message, the at least one targeted user as an intended target; [[and]]
 - at only one of the users, receiving the message;
 - at the only one of the users receiving the message, determining if a preselected number of occurrences of the at least one predefined signal feature of the message has been reached; [[,]]
 - responsive to the determining that the preselected number of occurrences has been reached, retransmitting, from the transmitter, performing a second step of retransmitting the message on the bus system; and
 - determining one of a number of the users to be awakened and a group of users to be awakened based on the retransmitted message, each user being awakened only if the data pattern identifies at least one of the user and a group to which the user belongs;
 - wherein a length of the message is at least two bits,
 - ~~wherein the at least one predefined signal feature is assigned to the at least one targeted user,~~ and
 - wherein the preselected number of occurrences of the at least one predefined signal feature is greater than one.
2. (Canceled).
3. (Original) The device according to claim 1, wherein the at least one signal feature includes at least one of an edge and an edge change of a signal.
4. (Original) The device according to claim 1, wherein the at least one signal feature includes at least one of a signal level and a preselected combination of a plurality of signal levels.

5. (Currently Amended) A targeted user of a bus system, comprising:
a detection device for implementing a two-step wake-up procedure including:
performing a first step of transmitting, from a transmitter, a message on the bus system for detecting at least one predefined signal feature of the message and determining, as a function of a data pattern encoded within the message, the at least one targeted user as an intended target; ~~[[and]]~~
at only one of the users, receiving the message;
at the only one of the users receiving the message, determining that ~~[[if]]~~ a preselected number of occurrences of the at least one predefined signal feature of the message has been reached; ~~[[,]]~~
responsive to the determining that the preselected number of occurrences has been reached, performing a second step of retransmitting, from the transmitter, the message on the bus system; and
determining one of a number of the users to be awakened and a group of users to be awakened based on the retransmitted message, each user being awakened only if the data pattern identifies at least one of the user and a group to which the user belongs;
wherein a length of the message is at least two bits,
wherein the at least one predefined signal feature is assigned to the targeted user,
whereby users of the bus system not associated with the at least one predefined signal feature do not detect the at least one predefined signal feature, and
wherein the preselected number of occurrences of the at least one predefined signal feature is greater than one.
6. (Canceled).
7. (Currently Amended) A method for waking up at least one targeted user of a bus system without waking up all of the users of the bus system, the method comprising:
(a) transmitting a message, from a transmitter, on the bus system;
(b) detecting, ~~by the at least one targeted user~~ at only one of the users, at least one predefined signal feature of the message, ~~wherein the at least one predefined signal feature is assigned to the at least one targeted user;~~
(c) at the only one of the users receiving the message, determining that ~~[[if]]~~ a preselected number of occurrences of the at least one predefined signal feature of the message has been reached; ~~[[,]]~~
(d) responsive to the determining that the preselected number of occurrences has been reached, retransmitting, from the transmitter, the message on the bus system; and

(e) ~~[[d]]~~ determining one of a number of the users to be awakened and a group of users to be awakened based on the retransmitted message, each user being awakened only if the data pattern identifies at least one of the user and a group to which the user belongs;

wherein a length of the message is at least two bits, and

wherein the preselected number of occurrences of the at least one predefined signal feature is greater than one.

8. (Previously Presented) The method according to claim 7, wherein the message is evaluated for a possible wake-up message once the at least one predefined signal feature is detected.

9. (Original) The method according to claim 7, further comprising determining a time duration when the signal feature occurs for a first time.

10. (Original) The method according to claim 7, wherein binary information results from a time duration following a first occurrence of the signal feature.

11. (Canceled).

12. (Canceled).

13. (Currently Amended) A targeted user of a bus system, comprising:
a detection device for implementing a two-step wake-up procedure including:
performing a first step of transmitting, from a transmitter, a message on the bus system for detecting at least one predefined signal feature of the message and determining, as a function of a data pattern encoded within the message, the at least one targeted user as an intended target; ~~[[and]]~~
at only one of the users, receiving the message;
at the only one of the users receiving the message, determining that ~~[[if]]~~ a preselected number of occurrences of the at least one predefined signal feature of the message has been reached; ~~performing a second step of~~
responsive to the determining that the preselected number of occurrences of
has been reached, retransmitting, from the transmitter, the message on the bus system;
and
determining one of a number of the users to be awakened and a group of users to be awakened based on the retransmitted message, each user being awakened only if the data pattern identifies at least one of the user and a group to which the user belongs;
wherein a length of the message is at least two bits,

~~wherein the at least one predefined signal feature is assigned to the targeted~~
user, and

wherein the preselected number of occurrences of the at least one predefined
signal feature is greater than one.